

ABSTRACT

A screening tool for an agent for promoting insulin production and/or an agent for increasing insulin content, wherein the tool is a G protein-coupled receptor exhibiting an activity of promoting insulin production by activation, or a cell expressing the polypeptide, is disclosed. Further, a method for screening an agent for promoting insulin production and/or an agent for increasing insulin content, comprising the steps of bringing the cell or a cell membrane thereof into contact with a substance to be tested, and analyzing whether or not the polypeptide is activated, is disclosed.

The screening tool and the screening method are useful in screening a substance which increases insulin content and prevents and/or treats diabetes.

Furthermore, a novel agent for increasing insulin content comprising as an active ingredient a substance obtained by the screening, is disclosed.